

## Product Overview

### CAT25128: EEPROM Serial 128-Kb SPI

For complete documentation, see the data sheet.

The CAT25128 is a EEPROM Serial 128-Kb SPI device internally organized as 16kx8 bits. This features a 64-byte page write buffer and supports the Serial Peripheral Interface (SPI) protocol. The device is enabled through a Chip Select (CS) input. In addition, the required bus signals are clock input (SCK), data input (SI) and data output (SO) lines. The HOLD input may be used to pause any serial communication with the CAT25128 device. The device features software and hardware write protection, including partial as well as full array protection. On-Chip ECC (Error Correction Code) makes the device suitable for high reliability applications. Available for New Product (Rev. E).

### Features

- 20 MHz SPI Compatible
- 1.8 V to 5.5 V Operation
- Hardware and Software Protection
- Low Power CMOS Technology
- SPI Modes (0,0 & 1,1)
- Industrial Temperature Range
- Self-Timed Write Cycle
- 64-Byte Page Write Buffer
- Block Write Protection - Protect 1/4, 1/2 or all of EEPROM Array
- 1,000,000 Program/Erase Cycles

For more features, see the data sheet

### Applications

- Automotive Systems
- Communications Systems
- Computer Systems
- Consumer Systems
- Industrial Systems

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	Density	Organization	Data Transmission Standard	f <sub>cycle</sub> Max (kHz)	t <sub>ACC</sub> Max ns	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>standby</sub> Max (μA)	I <sub>act</sub> Max (mA)	T Min (°C)	T Max (°C)	Package Type
CAT25128HU4I-GT3	0.76	Pb-free Halide free	Active	Serial	128 kb	16k x 8	SPI	10000	140	1.8	5.5	2	2	-40	85	UDFN-8
CAT25128VI-GT3	0.3333	Pb-free Halide free	Active	Serial	128 kb	16k x 8	SPI	10000	140	1.8	5.5	2	2	-40	85	SOIC-8
CAT25128VP2I-GT3	0.44	Pb-free Halide free	Active	Serial	128 kb	16k x 8	SPI	10000	140	1.8	5.5	2	2	-40	85	TDFN-8
CAT25128XE-T2	0.5865	Pb-free Halide free	Active	Serial	128 kb	16k x 8	SPI	10000	140	1.8	5.5	3	2	-40	125	SOIC-8
CAT25128XI-T2	0.44	Pb-free Halide free	Active	Serial	128 kb	16k x 8	SPI	10000	140	1.8	5.5	2	2	-40	85	SOIC-8
CAT25128YI-GT3	0.3333	Pb-free Halide free	Active	Serial	128 kb	16k x 8	SPI	10000	140	1.8	5.5	2	2	-40	85	TSSOP-8

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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